

Product datasheet for **SC109429**

Menin (MEN1) (NM_130799) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Menin (MEN1) (NM_130799) Human Untagged Clone
Tag:	Tag Free
Symbol:	Menin
Synonyms:	MEAI; SCG2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC109429 sequence for NM_130799 edited (data generated by NextGen Sequencing)

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ATGGGGCTGAAGGCCGCCAGAAGACGCTGTTCCCGCTGCGCTCCATCGACGACGTGGTG
CGCCTGTTTGCTGCCGAGCTGGGCCGAGAGGCCGACCTGGTGTCTTTCTTGGTG
CTGGGCTTCGTGGAGCATTTTCTGGCTGTCAACCGCGTCATCCCTACCAACGTTCCCGAG
CTCACCTTCCAGCCCAGCCCCGCCCGACCCGCTGGCGGCTCACCTACTTTCCCGTG
GCCGACCTGTCTATCATCGCCGCCCTCTATGCCCGCTTACCCGCCAGATCCGAGGCGCC
GTCGACCTGTCCCTCTATCCTCGAGAAGGGGTGTCTCCAGCCGTGAGCTGGTGAAGAAG
GTCTCCGATGTATATGGAACAGCCTCAGCCGCTCCTACTTCAAGGATCGGGCCACATC
CAGTCCCTCTCAGCTTCATCACAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCT
GTGGTTGGGGCTGCCAGGCCCTGGGTCTCCGGGATGTCCACCTCGCCCTGTCTGAGGAT
CATGCCTGGGTAGTGTGGGCCAATGGGGAGCAGACAGCTGAGGTACCTGGCACGGC
AAGGGCAACGAGGACCGCAGGGCCAGACAGTCAATGCCGGTGTGGCTGAGCGGAGCTGG
CTGTACCTGAAAGGATCATACTGCGCTGTGACCGCAAGATGGAGGTGGCGTTCATGGTG
TGTGCCATCAACCCTTCCATTGACCTGCACACCGACTCGCTGGAGTTCTGCAGTGCAG
CAGAAGCTGCTCTGGCTGCTCTATGACCTGGGACATCTGGAAAGGTACCCCATGGCCTTA
GGGAACCTGGCAGATCTAGAGGAGCTGGAGCCACCCCTGGCCGGCCAGACCCACTCACC
CTCTACCAACAAGGGCATTGCCTCAGCCAAGACCTACTATCGGGATGAACACATCTACCC
TACATGTACCTGGCTGGCTACCACTGTGCGCAACCGCAATGTGCGGGAAGCCCTGCAGGC
TGGGGCGACACGGCCACTGTCTCCAGGACTACAACTACTGCCGGGAAGACGAGGAGATC
TACAAGGAGTTCTTTGAAGTAGCCAATGATGTCTATCCCAACCTGCTGAAGGAGGCAGCC
AGCTTGTGGAGGCGGGCAGGAGCGGCCGGGGAGCAAAGCCAGGGCACCCAGAGCCAA
GGTTCGCCCTCCAGGACCCTGAGTGTCTCGCCACCTGTGCGATTCTACGACGGCATC
TGCAAATGGGAGGAGGGCAGTCCACGCCTGTGCTGCACGTGGGCTGGGCCACCTTTCTT
GTGCACTCCCTAGGCCGTTTTGAGGGACAGGTGCGGCAGAAGGTGCGCATAGTGAGCCGA
GAGGCCGAGGCGGCCGAGGCCGAGGAGCCGTGGGGCGAGGAAGCCGGGAAGGCCGGCGG
CGGGGCCACGGCGGGAGTCCAAGCCAGAGGAGCCCCGCGCCCAAGAAGCCAGCACTG
GACAAGGGCCTGGGCACCGGCCAGGGTGCAGTGTGAGGACCCCGGAAGCCTCCTGGG
ACTGTCGCTGGCACAGCCGAGGCCCTGAAGGTGGCAGCACGGCTCAGGTGCCAGCACCC
GCAGCATCACCGCCGAGGGTCCAGTGTCACTTTCCAGAGTGAGAAGATGAAGGGC
ATGAAGGAGCTGTGGTGGCCACCAAGATCAACTCGAGCGCCATCAAGCTGCAACTCACG
GCACAGTCGCAAGTGCAGATGAAGAAGCAGAAAGTGTCCACCCCTAGTGACTACACTCTG
TCTTCTCAAGCGGCAGCGCAAAGGCCTCTGA
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Clone variation with respect to NM_130799.2

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_130799 unedited AAATTTCCCGCCCGTTGCCGCAATGGGCGGTAGGCGTGTACGGTGGGAGGTCTATATAAG CAGAGCTCATTTAGGTGACACTATAGAATAACAAGTACTTGTCTTTTTGCAGCGGCCGC GAATTCGGCACGAGGGGGCCGCCACCAGCCCGCCATGGGGCTGAAGGCCGCCAG AAGACGCTGTTCCCGTGCCTCCATCGACGACGTGGTGCCTGTTTGTGCCGAGCTG GGCCGAGAGGAGCCGACCTGGTGTCTCTTTCTTGGTGTGGCTTCGTGGAGCATTTT CTGGCTGTCAACCGCGTATCCCTACCAACGTTCCCGAGCTCACCTTCCAGCCCAGCCCC GCCCCGACCCGCTGGCGGCCTCACCTACTTTCCCGTGGCCGACCTGTCTATCATCGCC GCCCTCTATGCCCGCTTACCAGCCAGATCCGAGGCGCCGTGCACCTGTCCCTCTATCCT CGAGAAGGGGTGTCTCCAGCCGTGAGCTGGTGAAGAAGGTCTCCGATGCATATGGAAC AGCCTCAGCCGCTCTACTTCAAGGATCGGGCCACATCCAGTCCCTCTCAGCTTCATC ACAGGCACCAAATTGGACAGCTCCGGTGTGGCCTTTGCTGTGGATGGGGCTGCCAGGCC CTGNGTCTCCGGATGTCCACCTCGCCGTGTGAGGATCATGCCTGGTGTGTTGGG CCCAATGGNGAGCAGACAGCTGAGGTACCTGGCACGGCCAGGGCAACGAGGACCGCAGG NGCCAGACAGTCATGCCTGTGTGGCTGAGCGGAGCTGGCTGTACCTGCACAGATCATACA TGCGCTGTGACCCGAGCAGGNAGTNGCGATCATGGTGTGTGCCATCAACCCTTNCATTGA CCTGCACACCGACTCGCTGGAGCTTCTGCAGCTGCAGCAGAAGCTGCTCTGGCTGCTT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_130799 unedited NGGGAATCTATGNACCGCGCCGATTCTAGNGATCGATTTTTTTTTTTTTTTTTTAAACA ATGTATTCATCTTTCTTGAAGTAAAAAAATCTATGTACAAAACAGGAAGAGATCAGG CTTTGTACCCACTCTAACCTCTGCAGATTTCTCCGGGATGCTCCGAGATGGGCTG GACCTCTGGGAGTTCCAGAGGGTCCGAAGGGAGGTCTGCTCTGATCCGGGGCCAGAC TCGTACAGGAAGAGGGCGGGCTCAGGATGCTCATAGGCTGGGGCGGAGTTTTGTGCC AGACTCGGGATACGAAGGAGAGGAACTAGGATTTCAAATTTCTGGAGCAGGACTGAAGT TATTTGGGGCAGGGAGCTTGGATTCCGAAGATATGGAATTCTGAAGTGCAGAAATATACT CCTAGGGGCTGAGTGGTCTAGGCTCCCGGGCTGGAGGTGGGACCTGTGCTCCTTGGGT AAGGGTAAAACCTCAGCTCCTACAAGCTGGGAGGAGCCCTGAGTAACGTTGGTCTGGCTC TAGGTGAGCGGTTCCGAGGAGGAGCTTGGTTTTCTAGGGGCTGGGCTTTAAAGACTGT AATTAGGACCCAGCGTGAGGTTTTCCATTGGCCGGCTGGGATTCTGGGAGAAGAGACCTAT ATTCTAACGACTGGGGCAGAGCCCTGGGTTCTGAGCTGGAGAAAATCGTGGGTTTGATAC AGACTGTACTCGGGACCGGAACCTNAGGTTTGGGTAGAGGTGAGGCCTGTCCCTTTGG GCTGGGGGCAGAACATGGGCTCAGNATTATGGGACTAAAGGCGGAGCCTGGGGTCCACACA AGCGGTCCGAAATCCAGTAGTTCANAGGCTTTGCGCTGCCGCTTGAGAAAGAAGAAAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_130799
Insert Size:	2850 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_130799.1](#), [NP_570711.1](#)

RefSeq Size: 2772 bp

RefSeq ORF: 1833 bp

Locus ID: 4221

UniProt ID: [O00255](#)

Cytogenetics: 11q13.1

Domains: Menin

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene encodes menin, a tumor suppressor associated with a syndrome known as multiple endocrine neoplasia type 1. Menin is a scaffold protein that functions in histone modification and epigenetic gene regulation. It is thought to regulate several pathways and processes by altering chromatin structure through the modification of histones. [provided by RefSeq, May 2019]

Transcript Variant: This variant (2) differs from variant 1 by using an alternative splice site in exon 2. Use of this splice site results in the loss of 15 nt at the end of exon 2. Isoform 2 is missing an internal 5 aa as compared to isoform 1. Variants 2, 4, 5, and 6 all encode the same isoform (2).